Abstract:

The present invention is a vibratory patient support system. The support system has at least one bladder, at least one vibrational device, and first and second control units that respectively control (a) the inflation and deflation of the at least one bladder and (b) vibrational device. The at least one bladder (i) inflates when receiving a fluid at a faster rate than the fluid exiting the bladder; (ii) deflates when the fluid leaves the bladder at a faster rate than the fluid entering the bladder, and (iii) has a top surface that allows a user to apply pressure thereon and a bottom surface. The vibrational device (a) is positioned (i) under the bottom surface of the bladder, or (ii) within the bladder and below the top surface of the at least one bladder so it does not contact the top surface; and (b) generates a vibrational force. The first control unit can adjust the inflation of the at least one bladder. The second control unit can adjust the vibration forces generated from the vibration device. The first and second control units can operate in conjunction with each other to provide the desired vibrational application to the user.